

Appl. No. 10/708,662
Amdt. dated January 27, 2006
Reply to Office action of October 31, 2005

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for a ~~display controller~~ graphics chip to access data stored in a memory device of a computer device comprising:
 - 5 setting a block capacity value;
 - dividing a plurality of read requests corresponding to a predetermined request sequence and said block capacity value into a plurality of request, wherein a total amount of data required by read requests grouped in each request group is less than the block capacity value; and
- 10 reordering the read requests in each of said request groups corresponding to data on the page of said memory device into a second request sequence for each of said request groups;
 - executing the read requests in each of request group according to said second request sequence of each of said request groups.
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2. (Original) The method of claim 1 further comprising: when the pages accessed by the read requests in the next request group is as same as the page accessed by the final read request in the last request group,
 - executing said read requests in the next request group at first, and then executing
- 20 other read requests in the next request group.
3. (Previously Presented) The method of claim 1 wherein the computer device comprises a memory controller that stores the plurality of read requests in a queue.
- 25 4. (Currently Amended) The method of claim 1 wherein the computer device comprises a memory controller installed in a north bridge circuit and the north bridge circuit is used for controlling transmission between a ~~display controller~~ graphics chip and the memory device.

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- 5 5. (Currently Amended) The method of claim 1 wherein the computer device comprises a memory controller, and data that are read with the memory controller are transmitted to a display controller graphics chip.

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6. (Currently Amended) The method of claim 5 wherein the display controller graphics chip is connected electrically to the memory controller through an accelerated graphics port bus in the computer device.

10 7-8. (Cancelled).

9. (Original) The method of claim 1 wherein the memory device is a system memory of the computer system.

15 10. (Currently Amended) The method of claim 1 wherein the computer device comprises a memory controller that stores the data in the display controller graphics chip according to the predetermined request sequence.

11. (Previously Presented) A method for accessing data, a plurality of read requests used

20 for accessing data from a memory device according to a predetermined request sequence, the method comprising:

establishing at least two request groups for the plurality of read requests; reordering said read requests according to pages in said memory device accessed by said read requests into a second request sequence, wherein within each request group, said read requests accessing the same page of said memory device are continuously arranged, and when a current request group has a read request of the same page as a last read request of a previous request group, a first read request of the current request group is ordered to correspond to the

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page of the last read request of the previous request group; and executing the read requests according to said second request sequence.

12. (Cancelled)

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13. (Previously Presented) The method of claim 11 wherein a memory controller is used to store the plurality of read requests in a queue.

14. (Currently Amended) The method of claim 11 wherein a memory controller is

10 installed in a north bridge circuit and the north bridge circuit is used for controlling the transmission between a ~~display controller~~ graphics chip and the memory device.

15. (Currently Amended) The method of claim 11 wherein data are read with a memory controller and are transmitted to a ~~display controller~~ graphics chip.

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16. (Currently Amended) The method of claim 15 wherein the ~~display controller~~ graphics chip is connected electrically to the memory controller through an accelerated graphics port bus in the computer device.

20 17-18. (Cancelled)

19. (Original) The method of claim 11 wherein the memory device is a system memory of the computer device.

25 20. (Currently Amended) The method of claim 11 wherein a memory controller stores data in a ~~display controller~~ graphics chip according to the predetermined request sequence.